

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,946	08/09/2005	Bernard Pau	263432US0XPCT	4965
22850	7590 05/11/2006		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			AEDER, SEAN E	
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	,		1642	
			DATE MAILED: 05/11/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/516,946	PAU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sean E. Aeder, Ph.D.	1642				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-23 are subject to restriction and/or expressions.	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the output of of the ou	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 10/516,946

Art Unit: 1642

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5, 8, and 10-12, as specifically drawn to a process for in vitro detection of resistance of cancer cells to oxaliplatin treatment comprising measuring the mitochondrial apoptosis of cancer cells, and a process comprising measuring the mitochondrial apoptosis of cancer cells wherein the process comprises measurement of mRNA transcripts.

Group II, claim(s) 1-4, 6, and 9, as specifically drawn to a process for in vitro detection of resistance of cancer cells to oxaliplatin treatment comprising measuring the mitochondrial apoptosis of cancer cells, and a process comprising measuring the mitochondrial apoptosis of cancer cells wherein the process comprises measurement of the amount of mitochondrial apoptosis proteins.

Group III, claim(s) 1-4, 6, and 9, as specifically drawn to a process for in vitro detection of resistance of cancer cells to oxaliplatin treatment comprising measuring the mitochondrial apoptosis of cancer cells, and a process comprising measuring the mitochondrial apoptosis of cancer cells wherein the process comprises measurement of the activity of mitochondrial apoptosis proteins.

Group IV, claim(s) 7, drawn to a process comprised of detecting a mutation indicative of deficient mitochondrial apoptosis.

Group V, claim(s) 13, drawn to a process for section of compounds that inhibit the resistance of cancer cells to oxaliplatin.

Group VI, claim(s) 14-16, drawn to use of at least one agent stimulating mitochondria apoptosis.

Group VII, claim(s) 17-18, drawn to a product containing oxaliplatin and an agent capable of stimulating mitochondrial apoptosis.

Art Unit: 1642

Group IX, claim(s) 19, drawn to a kit for diagnosis of resistance of a cancer to oxaliplatin.

Group X, claim(s) 20, drawn to cell HCT116/S.

Group XI, claim(s) 21-23, drawn to the use of cell HCT116/S or any cell derived from cell HCT116/S.

The inventions listed as groups I-XI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking groups I-XI appears to be that they all relate to the special technical feature of oxaliplatin treatment.

However, Bismuth et al (Annals of Surgery, 1996, 4:509-522) teaches oxaliplatin treatment (page 510 right column, in particular).

Therefore, the technical feature linking the inventions of groups I-XI does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

Accordingly, groups I-XI are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Claims 1, 2, 8, 13, 15-17, 19, and 21-23 are generic to a plurality of disclosed patentably distinct species of **cancers** comprising the following: colorectal cancer, cancer of the ovaries, cancer of the germinal cells, cancer of the lung, cancer of the digestive tract, cancer of the prostate, cancer of the pancreas, cancer of the small intestine, and cancer of the stomach (see claims 2, 15, and 16). The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each species represent separate and distinct cell types with different morphologies and functions such that one species could not be interchanged with the other. Further, the above species are distinct diseases which differ at least in etiology, pathology, and mechanisms. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no

Art Unit: 1642

generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Claims 3-13 and 21-22 are generic to a plurality of disclosed patentably distinct species of mitochondrial apoptosis related genes and mitochondrial apoptosis related proteins comprising the following: Bax, Bcl-2, and cytochrome c (see claim 4). The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the above species represent separate and distinct molecules with different structures and functions such that one species could not be interchanged with the other. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Claims 14, 17, and 18 are generic to a plurality of disclosed patentably distinct species of agents capable of stimulating mitochondrial apoptosis comprising the following: TNF, FasL, glutamate, Herbimycin A, Paraquat, Staurosporine, Calphonstin C, etc (see claims 14, 17, and 18). The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the above species represent separate and distinct molecules with different structures and functions such that one species could not be interchanged with the other. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E. Aeder, Ph.D. whose telephone number is 571-272-8787. The examiner can normally be reached on M-F: 8:30-5:00.

Application/Control Number: 10/516,946

Art Unit: 1642

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEFFREY SIEW
JEHVISORY PATENT EXAMINER

Page 5